

FORM PTO-1449  
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Attorney Docket No.: MSU-08153

Serial No.: 10/600,070

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use Several Sheets If Necessary)Applicant: Osteryoung *et al.*

Filing or 371(c) Date: 06/20/03

Group Art Unit: 1638

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Publication Date	Applicant / Patentee	Class	Subclass	Filing Date
	1	4,683,195	7/28/87	Mullis <i>et al.</i>			
	2	4,683,202	7/28/87	Mullis			
	3	4,965,188	10/23/90	Mullis <i>et al.</i>			
	4	5,352,605	10/4/94	Fraley			
	5	5,584,807	12/17/96	McCabe			
	6	5,837,458	11/17/98	Minshull <i>et al.</i>			
	7	5,830,721	11/3/98	Stemmer <i>et al.</i>			
	8	5,811,238	9/22/98	Stemmer <i>et al.</i>			
	9	5,733,731	3/31/98	Schatz <i>et al.</i>			
	10	5,223,409	6/29/93	Ladner <i>et al.</i>			
	11	5,198,346	3/30/93	Ladner <i>et al.</i>			
	12	5,096,815	3/17/92	Ladner <i>et al.</i>			
	13	5,187,267	2/16/93	Comai <i>et al.</i>			
	14	5,057,422	10/15/91	Bol <i>et al.</i>			
	15	5,981,839	11/9/99	Kanui <i>et al.</i>			
	16	6,051,757	4/18/00	Barton <i>et al.</i>			
	17	5,981,840	11/9/99	Zhao <i>et al.</i>			
	18	5,824,877	10/20/98	Hinchee <i>et al.</i>			
	19	4,940,838	7/10/90	Schilperoort <i>et al.</i>			
	20	5,501,967	3/26/96	Offringa <i>et al.</i>			
	21	5,846,795	12/8/98	Ahlquist <i>et al.</i>			
	22	5,500,360	3/19/96	Ahlquist <i>et al.</i>			
	23	5,173,410	12/22/92	Ahlquist			
	24	5,965,794	10/12/99	Turpen			
	25	5,977,438	11/2/99	Turpen <i>et al.</i>			
	26	5,866,785	12/2/99	Donson <i>et al.</i>			
	27	5,451,513	9/19/95	Maliga <i>et al.</i>			
	28	5,545,817	8/13/96	McBride <i>et al.</i>			
	29	5,545,818	8/13/96	McBridet <i>et al.</i>			
	30	4,945,050	7/31/90	Sanford <i>et al.</i>			
	31	6,063,947	5/16/00	DeBonte <i>et al.</i>			
	32	5,981,836	11/9/99	Osteryoung			
	33	6,812,382	11/2/04	Hitz <i>et al.</i>			

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## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	34	WO 95/14098	5/26/95	PCT				
	35	WO 88/06630	9/7/88	PCT				
	36	WO 92/09690	6/11/92	PCT				
	37	WO 93/07278	4/15/93	PCT				
	38	WO 95/16783	6/22/95	PCT				
	39	EP 0 292 435	11/23/88	EU				
	40	WO 94/13822	6/23/94	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	41	Osteryoung <i>et al.</i> (1998) "Chloroplast Division in Higher Plants Requires Members of Two Functionally Divergent Gene Families with Homology to Bacterial <i>ftsZ</i> ." Plant Cell 10:1991-2004
	42	Jiang <i>et al.</i> (1998) "Multivesicular bodies: a mechanism to package lytic and storage functions in one organelle?" Trends Cell Biol 7:362-367
	43	Faguy and Doolittle (1998) "Cytoskeletal proteins: The evolution of cell division," Curr. Biol. 8:R338-341
	44	Lowe and Amos (1998) "Crystal structure of the bacterial cell-division protein FtsZ," Nature 391:203-206
	45	Bi and Lutkenhaus (1991) "FtsZ ring structure associated with division in <i>Escherichia coli</i> ," Nature 354:161-164
	46	Addinall <i>et al.</i> (1996) "FtsZ Ring Formation in <i>fts</i> Mutants," J Bacteriol 178:3877-3884
	47	deBoer <i>et al.</i> (1988) "Isolation and Properties of <i>minB</i> , a Complex Genetic Locus Involved in Correct Placement of the Division Site in <i>Escherichia coli</i> ," J Bacteriol 170:2106-2112
	48	Sun and Margolin (1998) "FtsZ Dynamics during the Division Cycle of Live <i>Escherichia coli</i> Cells," J Bacteriol 180:2050-2056
	49	Lutkenhaus (1998) "The regulation of bacterial cell divisions: a time and place for it," Curr Opin Microbiol 1:210-215
	50	Rothfield (1999) "Bacterial Cell Division," Annu. Rev. Genet. 33:423-448
	51	Rothfield and Justice (1997) "Bacterial Cell Division: The Cycle of the Ring," Cell 88:581-584
	52	Sullivan and Maddock (2000) "Bacterial division: Finding the dividing line," Curr. Biol. 10:R249-252
	53	McAndrew <i>et al.</i> (2001) "Colocalization of Plastid Division Proteins in the Chloroplast Stromal Compartment Establishes a New Functional Relationship between FtsZ1 and FtsZ2 in Higher Plants," Plant Physiol. 127:1656-1666
	54	Osteryoung <i>et al.</i> (2001) "The Plastid Division Machine," Annu. Rev. Plant Physiol. Plant Mol. Biol. 52:315-333
	55	Colletti <i>et al.</i> (2000) "A homologue of the bacterial cell division site-determining factor MinD mediates placement of the chloroplast division apparatus," Curr. Biol. 10:507-16
	56	Moehs <i>et al.</i> (2001) "Analysis of carotenoid biosynthetic gene expression during marigold petal development," Plant Mol. Biol. 45:281-93
	57	Wakasugi <i>et al.</i> (1997) "Complete nucleotide sequence of the chloroplast genome from the green alga <i>Chlorella vulgaris</i> : The existence of genes possibly involved in chloroplast division," Proc. Natl. Acad. Sci. USA 94:5967-72
	58	Itoh <i>et al.</i> (2001) "A Chloroplast Protein Homologous to the Eubacterial Topological Specificity Factor MinE Plays a Role in Chloroplast Division," Plant Physiol. 127:1644-1655
	59	Reddy <i>et al.</i> (2002) "Overexpression of the <i>Arabidopsis thaliana</i> <i>MinE1</i> bacterial division inhibitor homologue gene alters chloroplast size and morphology in transgenic <i>Arabidopsis</i> and tobacco plants," Planta. 215:167-176
	60	Margolin (1998) "A green light for the bacterial cytoskeleton," Trends Microbiol. 6:233-38

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61	Osteryoung (1998) "Plastid division: evidence for a prokaryotically derived mechanism," <i>Curr Opin. Plant Biol.</i> 1:475-79
62	Marrison <i>et al.</i> (1999) "The distinctive roles of five different <i>ARC</i> genes in the chloroplast division process in <i>Arabidopsis</i> ," <i>The Plant Journal</i> 18(6): 651-662
63	Ingram and Van Baalen C (1970) "Characteristics of a Stable, Filamentous Mutant of a Coccoid Blue-Green Alga," <i>J. Bacteriol.</i> 102:784-789
64	Ingram <i>et al.</i> (1972) "Cell Division Mutations in the Blue-Green Bacterium <i>Agmenellum quadruplicatum</i> Strain BG1: a Comparison of the Cell Wall," <i>J. Bacteriol.</i> 111: 614-621
65	Ingram and Fisher (1973) "Novel Mutant Impaired in Cell Division: Evidence for a Positive Regulating Factor," <i>J. Bacteriol.</i> 113:999-1005
66	Ingram and Fisher (1973) "Mechanism for the Regulation of Cell Division in <i>Agmenellum</i> ," <i>J. Bacteriol.</i> 113:1006-1014
67	Ingram and Blackwell (1975) "Isolation of a Small-Cell Mutant in the Blue-Green Bacterium <i>Agmenellum quadruplicatum</i> ," <i>J. Bacteriol.</i> 123:743-746
68	Doherty and Adams (1995) "Cloning and sequence of <i>ftsZ</i> and flanking regions from the cyanobacterium <i>Anabaena</i> PCC 7120," <i>Gene</i> : 93-99
69	Zhang <i>et al.</i> (1995) "Analysis of genes encoding the cell division protein FisZ and a glutathione synthetase homologue in the cyanobacterium <i>Anabaena</i> sp. PCC 7120," <i>Res. Microbiol.</i> 146:445-455
70	Cai and Wolk (1997) "Nitrogen Deprivation of <i>Anabaena</i> sp. Strain PCC 7120 Elicits Rapid Activation of a Gene Cluster that is Essential for Uptake and Utilization of Nitrate," <i>J. Bacteriol.</i> 179:258-266
71	Ernst <i>et al.</i> (1992) "Synthesis of Nitrogenase in Mutants of the Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120 Affected in Heterocyst Development or Metabolism," <i>J. Bacteriol.</i> 174:6025-6032
72	Wolk <i>et al.</i> (1991) "Use of a transposon with luciferase as a reporter to identify environmentally responsive genes in a cyanobacterium," <i>Proc. Natl. Acad. Sci. USA</i> 88:5355-5359
73	Dolganov and Grossman (1993) "Insertional Inactivation of Genes to Isolate Mutants of <i>Synechococcus</i> sp. Strain PCC 7942: Isolation of Filamentous Strains," <i>J. Bacteriol.</i> 175:7644-7651
74	Ohtsuka and Hata (2000) "Molecular chaperone function of mammalian Hsp70 and Hsp40 - a review," <i>Int. J. Hyperthermia</i> 16:231-45
75	Cheetham and Caplan (1998) "Structure, function and evolution of DnaJ: conservation and adaptation of chaperone function," <i>Cell Stress Chaperones</i> 3:28-36
76	Bukau and Horwich (1998) "The Hsp70 and Hsp60 Chaperone Machines," <i>Cell</i> 92:351-366
77	Fink (1999) "Chaperone-Mediated Protein Folding," <i>Physiological Rev.</i> 79:425-449
78	Gething (1997) "The difference with prokaryotes," <i>Nature</i> 388:329-331
79	Hartl (1996) "Molecular chaperones in cellular protein folding," <i>Nature</i> 381:571-580
80	Laufen <i>et al.</i> (1999) "Mechanism of regulation of Hsp70 chaperones by DnaJ cochaperones," <i>Proc. Natl. Acad. Sci. USA</i> 96:5452-5457
81	Sikorski <i>et al.</i> (1990) "A Repeating Amino Acid Motif in <i>CDC23</i> Defines a Family of Proteins and a New Relationship among Genes Required for Mitosis and RNA Synthesis," <i>Cell</i> 60:307-317
82	Das <i>et al.</i> (1998) "The structure of the tetratricopeptide repeats of protein phosphatase 5: implications for TPR-mediated protein-protein interactions," <i>EMBO J.</i> 17:1192-1199
83	Lamb <i>et al.</i> (1995) "Tetratricopeptide repeat interactions: to TPR or not to TPR," <i>Trends Biochem. Sci.</i> 20:257-259
84	Wilson <i>et al.</i> (1984) "The Structure of an Antigenic Determinant in a Protein," <i>Cell</i> 37:767
85	Crea and Horn (1980) "Synthesis of oligonucleotides on cellulose by a phosphotriester method," <i>Nucl. Acids Res.</i> 8:2331
86	Chow <i>et al.</i> (1981) "Synthesis of oligodeoxyribonucleotides on silica gel support," <i>Nucl. Acids Res.</i> 9:2807-2817
87	Roberge <i>et al.</i> (1995) "A Strategy for a Convergent Synthesis of N-Linked Glycopeptides on a Solid Support," <i>Science</i> 269:202-204
88	Sarkar <i>et al.</i> (1993) "Restriction-site PCR: A Direct Method of Unknown Sequence Retrieval Adjacent to a Known Locus by Using Universal Primers," <i>PCR Methods Applic.</i> 2:318-322
89	Triglia <i>et al.</i> (1988) "A procedure for <i>in vitro</i> amplification of DNA segments that lie outside the boundaries of known sequences," <i>Nucl. Acids Res.</i> 16:8186
90	Lagerstrom <i>et al.</i> (1991) "Capture PCR: Efficient Amplification of DNA Fragments Adjacent to a Known Sequence in Human and YAC DNA," <i>PCR Methods Applic.</i> 1:111-119

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91	Parker <i>et al.</i> (1991) "Targeted gene walking polymerase chain reaction," Nucl. Acids Res. 19:3055-60
92	Back and Chappell (1996) "Identifying functional domains within terpene cyclases using a domain-swapping strategy," Proc. Natl. Acad. Sci. USA 93: 6841-6845
93	Moore and Arnold (1996) "Directed evolution of a <i>para</i> -nitrobenzyl esterase for aqueous-organic solvents," Nat. Biotech. 14:458-67
94	Eckert and Kunkel (1991) "DNA Polymerase Fidelity and the Polymerase Chain Reaction," PCR Methods Appl. 1:17-24
95	Cadwell and Joyce (1992) "Randomization of Genes by PCR Mutagenesis," PCR Methods Appl. 2:28-33
96	Zhao and Arnold (1997) "Optimization of DNA shuffling for high fidelity recombination," Nucl. Acids. Res. 25:1307-08
97	Smith (1994) "The progeny of sexual PCR," Nature 370:324-25
98	Stemmer (1994) "Rapid evolution of a protein <i>in vitro</i> by DNA shuffling," Nature 370:398-91
99	Stemmer (1994) "DNA shuffling by random fragmentation and reassembly: <i>In vitro</i> recombination for molecular evolution," Proc. Natl. Acad. Sci. USA 91:10747-10751
100	Zhang <i>et al.</i> (1997) "Directed evolution of a fucosidase from a galactosidase by DNA shuffling and screening," Proc. Natl. Acad. Sci. USA 94:4504-09
101	Crameri <i>et al.</i> (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling," Nat. Biotech. 15:436-38
102	Itakura <i>et al.</i> (1984) "Synthesis and Use of Synthetic Oligonucleotides," Annu. Rev. Biochem. 53:323
103	Itakura <i>et al.</i> (1984) "Expression in <i>Escherichia coli</i> of a Chemically Synthesized Gene for the Hormone Somatostatin," Science 198:1056
104	Ike <i>et al.</i> (1983) "Solid phase synthesis of polynucleotides. VIII. Synthesis of mixed oligodeoxyribonucleotides by the phosphotriester solid phase method," Nucl. Acid Res. 11:477
105	Scott <i>et al.</i> (1980) "Searching for Peptide Ligands with an Epitope Library," Science 249:386-390
106	Roberts <i>et al.</i> (1992) "Directed evolution of a protein: Selection of potent neutrophil elastase inhibitors displayed on M13 fusion phage," Proc. Natl. Acad. Sci. USA 89:2429-2433
107	Devlin <i>et al.</i> (1990) "Random Peptide Libraries: A Source of Specific Protein Binding Molecules," Science 249: 404-406
108	Cwirla <i>et al.</i> (1990) "Peptides on phage: A vast library of peptides for identifying ligands," Proc. Natl. Acad. Sci. USA 87: 6378-6382
109	Ben-Bassat <i>et al.</i> (1987) "Processing of the Initiation Methionine from Proteins: Properties of the <i>Escherichia coli</i> Methionine Aminopeptidase and Its Gene Structure," J. Bacteriol., 169:751-757
110	Miller <i>et al.</i> (1987) "N-terminal methionine-specific peptidase in <i>Salmonella typhimurium</i> ," Proc. Natl. Acad. Sci. USA 84:2718-22
111	Janknecht <i>et al.</i> (1991) "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus," Proc. Natl. Acad. Sci. USA 88:8972
112	Marks <i>et al.</i> (1992) "Molecular Evolution of Proteins on Filamentous Phage," J. Biol. Chem. 267:16007-16010
113	Griffiths <i>et al.</i> (1993) "Human anti-self antibodies with high specificity from phage display libraries," EMBO J. 12:725-734
114	Clackson <i>et al.</i> (1991) "Making antibody fragments using phage display libraries," Nature 352:624-628
115	Barbas <i>et al.</i> (1992) "Semisynthetic combinatorial antibody libraries: A chemical solution to the diversity problem," Proc. Natl. Acad. Sci., 89:4457-4461
116	Wang <i>et al.</i> (1994) "Single Amino Acid Insertion Probe the a Subunit of the <i>Escherichia coli</i> F <sub>1</sub> F <sub>0</sub> -ATP Synthase," J. Biol. Chem. 269:3095-3099
117	Balint (1993) "Antibody engineering by parsimonious mutagenesis," Gene 137:109-118
118	Nagashima <i>et al.</i> (1993) "Alanine-scanning Mutagenesis of the Epidermal Growth Factor-like Domains of Human Thrombomodulin Identifies Critical Residues for Its Cofactor Activity," J. Biol. Chem. 268:2888-2892
119	Cunningham <i>et al.</i> (1989) "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis," Science 244:1081-1085
120	Brown <i>et al.</i> (1992) "The Promoter for the Procytic Acidic Repetitive Protein (PARP) Genes of <i>Trypanosoma brucei</i> Shares Features with RNA Polymerase I Promoters," Mol. Cell. Biol. 12:2644-2652
121	McKnight <i>et al.</i> (1986) "Transcriptional Control Signals of a Eukaryotic Protein-Coding Gene," Science 232:316
122	Myers <i>et al.</i> (1986) "Fine Structure Genetic Analysis of a $\beta$ -Globin Promoter," Science 232:613

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123	Gleba <i>et al.</i> (1999) "Use of plant roots for phytoremediation and molecular farming," Proc. Natl. Acad. Sci. USA 96: 5973-5977
124	Weselake and Taylor (1999) "The study of storage lipid biosynthesis using microspore-derived cultures of oilseed rape," Prog. Lipid Res. 38: 401
125	Chao <i>et al.</i> (1999) "Leucine Aminopeptidase RNAs, Proteins, and Activities Increase in Response to Water Deficity, Salinity, and the wound Signals Systemin, Methyl Jasmonate, and Absciscic Acid," Plant Physiol. 120:979-992
126	Beachy <i>et al.</i> (1985) "Accumulation and assembly of soybean $\beta$ -conglycinin in seeds of transformed petunia plants," EMBO J 4: 3047-3053
127	Proudfoot (1991) "Poly(A) Signals," Cell 64:671
128	Sanfacon <i>et al.</i> (1991) "A dissection of the cauliflower mosaic virus polyadenylation signal," Genes Dev. 5:141
129	Mogen <i>et al.</i> (1990) "Upstream Sequences Other than AAUAAA are Required for Efficient Messenger RNA 3'-End Formation in Plants," Plant Cell 2:1261
130	Ballas <i>et al.</i> (1989) "Efficient functioning of plant promoters and poly(A) sites in <i>Xenopus</i> oocytes," Nucl. Acids Res. 17:7891
131	Joshi <i>et al.</i> (1987) "Putative polyadenylation signals in nuclear genes of higher plants: a compilation and analysis," Nucl. Acid Res. 15:9627
132	Callis <i>et al.</i> (1987) "Introns increase gene expression in cultured maize cells," Genes Develop. 1:1183
133	Kalderon <i>et al.</i> (1984) "A Short Amino Acid Sequence Able to Specify Nuclear Location," Cell 39:499
134	Joshi (1987) "An inspection of the domain between putative TATA box and translation start site in 79 plant genes," Nucl. Acids Research 15:6643
135	Bevan <i>et al.</i> (1983) "A chimaeric antibiotic resistance gene as a selectable marker for plant cell transformation," Nature 304:184
136	White <i>et al.</i> (1990) "A cassette containing the <i>bar</i> gene of <i>Streptomyces hygroscopicus</i> : a selectable marker for plant transformation," Nucl Acids Res. 18:1062
137	Blochlinger and Diggelmann (1984) "Hygromycin B Phosphotransferase as a Selectable Marker for DNA Transfer Experiments with Higher Eucaryotic Cells," Mol. Cell. Biol. 4:2929
138	Bourouis <i>et al.</i> "Vectors containing a prokaryotic dihydrofolate reductase gene transform <i>Drosophila</i> cells to methotrexate-resistance," (1983) EMBO J. 2:1099
139	Svab <i>et al.</i> (1990) "Stable transformation of plastids in higher plants," Proc. Natl. Acad. Sci. USA 87:8526
140	Staub and Maliga (1992) "Long Regions of Homologous DNA are Incorporated into the Tobacco Plastid Genome by Transformation," Plant Cell 4:39
141	Staub and Maliga (1993) "Accumulation of D1 polypeptide in tobacco plastids is regulated via the untranslated region of the <i>psbA</i> mRNA," EMBO J. 12:601
142	Svab and Maliga (1993) "High-frequency plastid transformation in tobacco by selection for a chimeric <i>aadA</i> Gene," Proc. Natl. Acad. Sci. USA 90:913
143	Fraley <i>et al.</i> (1982) "Liposome-mediated delivery of tobacco mosaic virus RNA into tobacco protoplasts: A sensitive assay for monitoring liposome-protoplast interactions," iProc. Natl. Acad. Sci. USA 79:1859
144	Paszowski <i>et al.</i> (1984) "Direct gene transfer to plants," EMBO J 3:2717
145	Hayashimoto <i>et al.</i> (1990) "A Polyethylene Glycol-Mediated Protoplast Transformation System for Production of Fertile Transgenic Rice Plants," Plant Physiol. 93:857
146	Fromm <i>et al.</i> (1985) "Expression of genes transferred into monocot and dicot plant cells by electroporation," Proc. Natl. Acad. Sci. USA 82:5824
147	Riggs <i>et al.</i> (1986) "Stable transformation of tobacco by electroporation: Evidence for plasmid concatenation," Proc. Natl. Acad. Sci. USA 83:5602
148	Weising <i>et al.</i> (1988) "Foreign Genes in Plants: Transfer, Structure, Expression, and Applications," Annual Rev. Genet. 22:421
149	Christou <i>et al.</i> (1988) "Stable Transformation of Soybean Callus by DNA-Coated Gold Particles," Plant Physiol. 87:671
150	Klein <i>et al.</i> (1988) "Transfer of foreign genes into intact maize cells with high-velocity microprojectiles," Proc. Natl. Acad. Sci. USA 85:4305
151	Gordon-Kamm <i>et al.</i> (1990) "Transformation of Maize Cells and Regeneration of Fertile Transgenic Plants," Plant Cell 2:603
152	Kozziel <i>et al.</i> (1996) "Transgenic Maize for the Control of European Corn Borrrer and Other Maize Insect Pests," Annals of the NY Acad. of Sci. 792:164
153	Shimamoto <i>et al.</i> (1989) "Fertile transgenic rice plants regenerated from transformed protoplasts," Nature 338:274

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154	Weeks <i>et al.</i> (1993) "Rapid Production of Multiple Independent Lines of Fertile Transgenic Wheat ( <i>Triticum aestivum</i> )," Plant Physiol. 102: 1077
155	Wan <i>et al.</i> (1994) "Generation of Large Numbers of Independently Transformed Fertile Barley Plants," Plant Physiol. 104: 37
156	Casas <i>et al.</i> (1993) "Transgenic sorghum plants via microprojectile bombardment," Proc. Natl. Acad. Sci. USA 90:11212
157	Nehra <i>et al.</i> (1994) "Self-fertile transgenic wheat plants regenerated from isolated scutellar tissues following microprojectile bombardment with two distinct gene constructs," The Plant Journal 5:285
158	Schell (1987) "Transgenic Plants as Tools to Study the Molecular Organization of Plant Genes," Science 237:1176
159	Sheehy <i>et al.</i> (1988) "Reduction of polygalacturonase activity in tomato fruit by antisense RNA," Proc. Natl. Acad. Sci. USA 85:8805-8809
160	Ch'ng <i>et al.</i> (1989) "Antisense RNA complementary to 3' coding and noncoding sequences of creatine kinase is a potent inhibitor of translation <i>in vivo</i> ," Proc. Natl. Acad. Sci. USA 86:10006-10010
161	Haseloff <i>et al.</i> (1988) "Simple RNA enzymes with new and highly specific endoribonuclease activities," Nature 334:585-591
162	Merlo <i>et al.</i> (1998) "Ribozymes Targeted to Stearoyl-ACP $\Delta 9$ Desaturase mRNA Produce Heritable Increases of Stearic Acid in Transgenic Maize Leaves," Plant Cell 10: 1603-1621
163	Napoli <i>et al.</i> (1990) "Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible Co-Suppression of Homologous Genes <i>in trans</i> ," Plant Cell 2:279-289
164	van der Krol <i>et al.</i> (1990) "Flavonoid Genes in Petunia: Addition of a Limited Number of Gene Copies May Lead to a Suppression of Gene Expression," Plant Cell 2:291-299
165	Wesley <i>et al.</i> (2001) "Construct design for efficient, effective and high-throughput gene silencing in plants," Plant J. 27: 581-590
166	Vitha <i>et al.</i> (2001) "FtsZ Ring Formation at the Chloroplast Division Site in Plants," J. Cell. Biol. 153:111-120
167	Altschul <i>et al.</i> (1990) "Basic Local Alignment Search Tool," J. Mol. Biol. 215:403-10
168	Emanuelsson <i>et al.</i> (2000) "Predicting Subcellular Localization of Proteins Based on their N-terminal Amino Acid Sequence," J. Mol. Biol. 300:1005-16
169	Tusnady and Simon (1998) "Principles Governing Amino Acid Composition of Integral Membrane Proteins: Application to Topology Prediction," J. Mol. Biol. 283:489-506
170	Krogh <i>et al.</i> (2001) "Predicting Transmembrane Protein Topology with a Hidden Markov Model: Application to Complete Genomes," J. Mol. Biol. 305:567-580
171	Cserzo <i>et al.</i> (1997) "Prediction of transmembrane $\alpha$ -helices in prokaryotic membrane proteins: the dense alignment surface method," Prot. Eng. 10:673-676
172	Corpet <i>et al.</i> (2000) "ProDom and ProDom-CG: tools for protein domain analysis and whole genome comparisons," Nucl. Acids Res. 28:267-9
173	Burge and Karlin (1997) "Prediction of Complete Gene Structures in Human Genomic DNA," J. Mol. Biol. 215:403-10
174	Ewing <i>et al.</i> (1998) "Base-Calling of Automated Sequencer Traces Using Phred. I. Accuracy Assessment," Genome Res. 8:175-185
175	Koksharova and Wolk (2002) "A Novel Gene that Bears a DnaJ Motif Influences Cyanobacterial Cell Division," J. Bacteriol. 184:5524-5528
176	McAndrew <i>et al.</i> (2001) "Colocalization of Plastid Division Proteins in the Chloroplast Stromal Compartment Establishes a New Functional Relationship between FtsZ1 and FtsZ2 in Higher Plants," Plant Physiol. 127:1656-1666
177	Dinkins <i>et al.</i> (2001) "Overexpression of the <i>Arabidopsis thaliana</i> MinD1 gene alters chloroplast size and number in transgenic tobacco plants," Planta. 214:180-188
178	Kanamaru <i>et al.</i> (2000) "Chloroplast Targeting, Distribution and Transcriptional Fluctuation of AtMinD1, a Eubacteria-Type Factor Critical for Chloroplast Division," Plant Cell Physiol. 41:1119-1128
179	Bramhill (1997) "Bacterial Cell Division," Annu. Rev. Cell. Dev. Biol. 13:395-424
180	Koksharova <i>et al.</i> (1998) "Genetic and biochemical evidence for distinct key functions of two highly divergent GAPDH genes in catabolic and anabolic carbon flow of the cyanobacterium <i>Synechocystis</i> sp. PCC6803," Plant Mol. Biol. 36:183-194
181	Zhou <i>et al.</i> (1998) "Molecular Genetic Analysis of Transposase-End DNA Sequence Recognition: Cooperativity of Three Adjacent Base-pairs in Specific Interaction with a Mutant Tn5 Transposase," J. Mol. Biol. 276:913-925
182	Robertson <i>et al.</i> (1996) "Characterization of Chloroplast Division Using the Arabidopsis Mutant <i>are5</i> ," Plant Physiol. 112:149-59

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37 CFR § 1.98(b))

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Group Art Unit: 1638

183	Thompson (1994) "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice," Nucl. Acids Res. 22:4673-4680
184	Thompson <i>et al.</i> (1997) "The CLUSTAL_X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools," Nucl. Acids Res. 25:4876-4882
185	Danino <i>et al.</i> (2001) "Dynamin family of mechanoenzymes," Curr. Opin. Cell Biol. 13:454-460
186	Hinshaw (2000) "Dynamin and Its Role in Membrane Fission," Annu. Rev. Cell Dev. Biol. 16:483-519
187	Gu and Verma (1996) "Phragmoplastin, a dynamin-like protein associated with cell plate formation in plants," EMBO J. 15:695-704
188	Arimura and Tsutsumi (2002) "A dynamin-like protein (ADL2b), rather than FtsZ, is involved in <i>Arabidopsis</i> mitochondrial division," Proc. Natl. Acad. Sci. USA 99 5727-5731
189	Jin <i>et al.</i> (2001) "A New Dynamin-Like Protein, ADL6, is Involved in Trafficking from the <i>trans</i> -Golgi Network to the Central Vacuole in <i>Arabidopsis</i> ," Plant Cell 13:1511-1525
190	Davis <i>et al.</i> (1998) "Soluble, highly fluorescent variants of green fluorescent protein (GFP) for use in higher plants," Plant Mol. Biol. 36:521-528
191	Pyke and Leech (1994) "A Genetic Analysis of Chloroplast Division and Expansion in <i>Arabidopsis thaliana</i> ," Plant Physiol. 104:201-207
192	Miyagishima <i>et al.</i> (1999) "Real-time analyses of chloroplast and mitochondrial division and differences in the behavior of their dividing rings during contraction," Planta 207:343-353
193	Miyagishima <i>et al.</i> (2001) "Plastid Division is Driven by a Complex Mechanism that Involves Differential Transition of the Bacterial and Eukaryotic Division Rings," Plant Cell 13:2257-2268
194	Bleazard <i>et al.</i> (1999) "The dynamin-related GTPase Dnm1 regulates mitochondrial fission in yeast," Nature Cell Biol. 1:298-304
195	Lee <i>et al.</i> (2002) "The Intermolecular Interaction between the PH Domain and the C-terminal Domain of Arabidopsis Dynamin-like 6 Determines Lipid Binding Specificity," J. Biol. Chem. 277:31842-31849
196	Cline <i>et al.</i> (1984) "Thermolysin is a Suitable Protease for Probing the Surface of Intact Pea Chloroplasts," Plant Physiol. 75:675-678
197	Schafer <i>et al.</i> (2002) "Dynamic2 and Cortactin Regulate Actin Assembly and Filament Organization," Curr. Biol. 12:1852-1857
198	Hermann <i>et al.</i> (1998) "Mitochondrial Fusion in Yeast Requires the Transmembrane GTPase Fzo1p," J. Cell. Biol. 143:359
199	Rapaport <i>et al.</i> (1998) "Fzo1p is a Mitochondrial Outer Membrane Protein Essential for the Biogenesis of Functional Mitochondria in <i>Saccharomyces cerevisiae</i> ," J. Biol. Chem. 273:20150
200	Sesaki and Jensen (1999) "Division versus Fusion: Dnm1p and Fzo1p Antagonistically Regulate Mitochondrial Shape," J. Cell. Biol. 147:699
201	Fritz <i>et al.</i> (2001) "Connection of the Mitochondrial Outer and Inner Membranes by Fzo1 is Critical for Organellar Fusion," J. Cell Biol 152:683
202	UniProt entry Q9FIG9 2001, <a href="http://www.pir.uniprot.org/cgi-bin/uplEntry?id=Q9FIG9">www.pir.uniprot.org/cgi-bin/uplEntry?id=Q9FIG9</a>
203	Lazar <i>et al.</i> (1988) Mol. Cell. Biol. 8:12547-1252
204	Hill <i>et al.</i> (1998) Biochem. Biophys. Res. Comm. 244:573-577
205	Guo <i>et al.</i> (2004) Proc. Natl. Acad. Sci. USA 101:9205-9210
206	Maple <i>et al.</i> (2007) Annals Botany 99:565-679
207	Vitha <i>et al.</i> (2003) The Plant Cell 15:1918-33
208	Koksharova <i>et al.</i> (2002) J. Bacteriol. 184:5524-5528

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